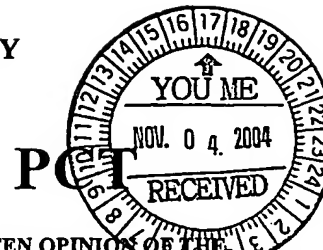


# PATENT COOPERATION TREATY

From the  
INTERNATIONAL SEARCHING AUTHORITY



WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

YOU ME PATENT & LAW FIRM

TELARAN BLDG., 825-33, Yoksam-dong, Kangnam-ku,  
Seoul 135-080 Republic of Korea

Date of mailing  
(day/month/year) **28 OCTOBER 2004 (28.10.2004)**

Applicant's or agent's file reference

OPP041546KR

**FOR FURTHER ACTION**

See paragraph 2 below

International application No.

**PCT/KR2004/001517**

International filing date (day/month/year)

**23 JUNE 2004 (23.06.2004)**

Priority date(day/month/year)

**30 JANUARY 2004 (30.01.2004)**

International Patent Classification (IPC) or both national classification and IPC

**IPC7 H04B 17/00**

Applicant

**ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE et al**

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.  
For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/KR



Korean Intellectual Property Office  
920 Dunsan-dong, Seo-gu, Daejeon 302-701,  
Republic of Korea

Facsimile No. 82-42-472-7140

Authorized officer

SONG, In Kwan

Telephone No. 82-42-481-5708



**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001517

**Box No. I Basis of this opinion**

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 

☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material
 

☐ a sequence listing

☐ table(s) related to the sequence listing
  - b. format of material
 

☐ in written format

☐ in computer readable form
  - c. time of filing/furnishing
 

☐ contained in the international application as filed.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/KR2004/001517

**Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

**1. Statement**

Novelty (N)	Claims	1 - 17	YES
	Claims		NO
Inventive step (IS)	Claims	1 - 17	YES
	Claims		NO
Industrial applicability (IA)	Claims	1 - 17	YES
	Claims		NO

**2. Citations and explanations :**

1. Reference is made to the following document:

D: US 5,675,339 A (HARRIS CORP.) 07 October 1997 cited in the application.

2. The present invention relates to a measurement of a Received Signal Strength Indicator (RSSI). It comprises an apparatus and method for measuring RSSI using a more simple structure wherein the inputted power of an Analog/Digital Converter (ADC) is converted by using an outputted signal and the described method. The invention also relates to the recording medium in which the program establishing the method is stored.

3. D relates to a method and circuit for controlling a reference voltage of ADC, and describes a method for indicating voltage level in which output is required. According to the indicated value, through a processor which provides a reference voltage for ADC, when I and Q ADC is less than the desired voltage, it is necessary to increase the provided voltage. In addition, when I and Q ADC is higher than the desired voltage, it is necessary to lower the provided voltage.

4. However, D discloses only the method for accurately providing a reference voltage. It does not disclose the characteristic of the present invention which measures RSSI simply and accurately.

5. It is thus believed that Claims 1-17 meet the criteria set out in PCT Article 33(2)-(4). D does not teach nor fairly suggest any of the components which are especially set forth in the claims. Therefore, Claims 1-17 have novelty, an inventive step and industrial applicability.